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For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: GHRH ANALOGUES

(57) Abstract: The present invention relates to growth hormone-releasing hormone (GHRH) analogues. More particularly, the invention relates to synthetic GHRH analogues of 29 amino acids or more, exhibiting concomitantly an increased resistance to proteolysis and high binding affinity to human GHRH receptor in *in vitro* studies, in comparison with human native GHRH (1-29)NH<sub>2</sub>. The present invention also relates to a pharmaceutical composition comprising any one of said GHRH analogues and to the use of these analogues for specific stimulation of *in vivo* GH release as well as preparation of a drug in the treatment of GH deficiency-related conditions. The present invention also provides for a method for initiating GHRH-induced biological actions in a mammal.

WO 2004/027064 A3

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/CA 03/01418

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C12N15/16 C07K14/60 A61K38/25

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C12N C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, Sequence Search

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 854 216 A (GAUDREAU PIERRETTE; UNIVERSITÉ DE MONTREAL) 29 December 1998 (1998-12-29) cited in the application columns 27-28; tables 11,12 the whole document -----	1-16

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*8\* document member of the same patent family

Date of the actual completion of the international search

27 September 2004

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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA 03/01418

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claims 14-16 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

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PCT/CA 03/01418

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5854216	A	29-12-1998	CA	2158782 A1	24-03-1996